Earthquake Hazards Program

Quaternary Faults Metadata

Metadata

Quaternary Faults

Data format: Shapefile

File or table name: sectionsALL

Coordinate system: Geographic

Theme keywords: earthquake, earthquake preparedness, paleoseismology, neotectonic processes

Abstract:

FGDC and ESRI Metadata:

Metadata elements shown with blue text are defined in the Federal Geographic Data Committee's (FGDC) *Content Standard for Digital Geospatial Metadata (CSDGM)*. Elements shown with green text are defined in the *ESRI Profile of the CSDGM.* Elements shown with a green asterisk (*) will be automatically updated by ArcCatalog. ArcCatalog adds hints indicating which FGDC elements are mandatory; these are shown with gray text.

Identification Information:

Citation:
Citation information:
Originators: Kathy Haller and Greg Smoczyk

***Title:**
Quaternary Faults
***File or table name:** sectionsALL

Publication date: 3 November 2010
***Geospatial data presentation form:** vector digital data

Other citation details:

Online linkage: http://earthquake.usgs.gov/hazards/qfaults/

Description:
Abstract:
This website contains locations and information on faults and associated folds in the United States that are believed to be sources of surface-rupturing earthquakes d

Purpose:
Starting in the early 1970s, mainly in response to national concerns about the siting of nuclear reactors, scientists needed to locate active and Quaternary faults and The descriptions contain information on geographic, geologic, and paleoseismic parameters that are deemed critical to making geologic-based assessments of seism

Supplemental information:
details about each fault are available through the online database at http://qfaults.cr.usgs.gov/

***Language of dataset:** en

Time period of content:
Time period information:
Single date/time:
Calendar date: 2010

Currentness reference:
publication date

Status:
Progress: In work
Maintenance and update frequency: As needed

Spatial domain:
Bounding coordinates:
***West bounding coordinate:** -180
***East bounding coordinate:** 180
***North bounding coordinate:** 70.751657
***South bounding coordinate:** 18.766227

Local bounding coordinates:
***Left bounding coordinate:** -180
***Right bounding coordinate:** 180
***Top bounding coordinate:** 70.751657
***Bottom bounding coordinate:** 18.766227

Keywords:
Theme:

Theme:
Theme keywords: earthquake, earthquake preparedness, paleoseismology, neotectonic processes
Theme keyword thesaurus:

Place:
Place keywords: United States

Access constraints: no restrictions.
Use constraints:
Citations to the database are requested.
U.S. Geological Survey (and supporting agency if appropriate-see list below),
2010, Quaternary fault and fold database for the United States, accessed DATE,
from USGS web site: http//earthquakes.usgs.gov/hazards/qfaults/.

List of cooperators:
Alaska..... Alaska Department of Natural Resources
Arizona..... Arizona Geological Survey
California..... California Geological Survey
Colorado..... Colorado Geological Survey
Idaho..... Idaho Geological Survey
Illinois..... Illinois State Geological Survey,
Louisiana..... Louisiana Geological Survey
Montana..... Montana Bureau of Mines and Geology
Nevada..... Nevada Bureau of Mines and Geology
New Mexico..... New Mexico Bureau of Mines and Mineral Resources
Texas..... Texas Bureau of Economic Geology,
Utah..... Utah Geological Survey

For example, I want to reference information I got about a fault in New Mexico on Jan 9, 2006.. My reference would look like:

U.S. Geological Survey and New Mexico Bureau of Mines and Mineral Resources,
2010, Quaternary fault and fold database for the United States, accessed Jan 9,
2012, from USGS web site: http//earthquake.usgs.gov/hazards/qfaults/.

Point of contact:
Contact information:
Contact organization primary:
Contact person: Quaternary faults web team
Contact organization: USGS

Contact electronic mail address: haller@usgs.gov

Hours of service:
Contact instructions:
Phone if immediate need, Kathy Haller 303-273-8616.

Data set credit:
The project coordinator is Kathy Haller (USGS). The database structure was created by Kathy Haller (USGS) and Jerry Mayer, updated from earlier versions of the w

A list of compilers is provided at http://earthquake.usgs.gov/hazards/qfaults/contributors.php; compilers provided descriptions and geographic locations for faults or

***Native dataset format:** Shapefile

***Native data set environment:**
ESRI ArcMap 10.2

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Data Quality Information:

Attribute accuracy:
Attribute accuracy report:
Fault characteristics, even where known in detail, are reported in broad categories (for example "age less than 1,600,000 years"). Comment fields in the database c

Logical consistency report:
Due to differences in the geological setting and tectonic activity, the central and eastern United States appear to have fewer faults active in the Quaternary. This is

Completeness report:
California database is incomplete, not all faults are included.

Positional accuracy:
Horizontal positional accuracy:
Horizontal positional accuracy report:
Locations of faults were taken from published literature; these investigations were carried out at a variety of scales of observation, hence some faults will be locate

Lineage:
Source information:
Source citation:
Citation information:
Originators: Numerous

Title:
Numerous

Series information:
Series name: Numerous

Process step:
Process description:
Beginning in the early 1970s, mainly in response to national concerns about the siting of nuclear reactors, scientists the need to locate active and Quaternary faults
The most recent effort began in 1990 in support of the International Lithosphere Program (ILP), which formed Working Group II-2. Its main objective was to compile

In 1993, the U.S. Geological Survey began developing a database for Quaternary faults and folds for the United States in earnest, largely supported by NEHRP but w

For this compilation, we limited our effort to synthesize published literature addressing faults that have a history of one or more surface-deforming earthquakes sinc

Source used citation abbreviation:

Process step:
Process description:
Dataset copied.

Source used citation abbreviation:

Process step:
Process description:
Metadata imported.

Source used citation abbreviation:

Process step:
Process description:
Metadata imported.

Source used citation abbreviation:

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Spatial Data Organization Information:

***Direct spatial reference method:** Vector

Point and vector object information:
SDTS terms description:
*__Name:__ sectionsALL
*__SDTS point and vector object type:__ String
*__Point and vector object count:__ 10329

ESRI terms description:
*__Name:__ sectionsALL
*__ESRI feature type:__ Simple
*__ESRI feature geometry:__ Polyline
*__ESRI topology:__ FALSE
*__ESRI feature count:__ 10329
*__Spatial index:__ FALSE
*__Linear referencing:__ FALSE

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Spatial Reference Information:

Horizontal coordinate system definition:
Coordinate system name:
*__Geographic coordinate system name:__ GCS_WGS_1984

Geographic:
*__Latitude resolution:__ 0.000000
*__Longitude resolution:__ 0.000000
*__Geographic coordinate units:__ Decimal degrees

Geodetic model:
*__Horizontal datum name:__ D_WGS_1984
*__Ellipsoid name:__ WGS_1984
*__Semi-major axis:__ 6378137.000000
*__Denominator of flattening ratio:__ 298.257224

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Entity and Attribute Information:

Detailed description:
*__Name:__ sectionsALL

Entity type:
*__Entity type label:__ sectionsALL
*__Entity type type:__ Feature Class
*__Entity type count:__ 10329

Attribute:
Attribute label: FID
Attribute definition:
Internal feature number.
Attribute definition source:
ESRI

Attribute domain values:
Unrepresentable domain:
Sequential unique whole numbers that are automatically generated.

Attribute:
Attribute label: Shape
Attribute definition:
Feature geometry.
Attribute definition source:
ESRI

Attribute domain values:
Unrepresentable domain:
Coordinates defining the features.

Attribute:

Attribute label: objectid
Attribute definition:

*__Attribute type:__ Double
*__Attribute width:__

Attribute:
Attribute label: code
Attribute definition:
Value used for symbolizing faults

*__Attribute type:__ Double
*__Attribute width:__

Attribute domain values:
Enumerated domain:
Enumerated domain value definition source:
Value used for symbolizing faults; composed using a strict format in which the numerals or letters in a particular position within the code have consistent meanings.
>First digit: fault location code
>1 = well located
>2 = moderately well located
>3 = inferred
>
>Second digit: fault-age code
>1 = historic
>2 = Holocene < 15,000 years
>3 = late Quaternary < 130,000 years
>4 = mid to late Quaternary < 750,000 years
>5 = Quaternary < 1,600,000 years
>6 = class B
>7 = unknown
>0 = unknown
>
>Third digit: fault slip rate code
>1 = >5 mm/year
>2 = 1-5
>3 = .2 - 1
>4 = < .2 mm/year

Attribute:
*__Attribute label:__ name
*__Attribute alias:__ name
Attribute definition:
fault name in database
Attribute definition source:
online database

*__Attribute type:__ String
*__Attribute width:__ 80

Attribute domain values:
Unrepresentable domain:
feature name

Attribute:
*__Attribute label:__ num
*__Attribute alias:__ num
Attribute definition:
fault index number tied to online database

*__Attribute type:__ String
*__Attribute width:__ 6

Attribute domain values:
Unrepresentable domain:
feature id number

Attribute:
*__Attribute label:__ age

*__Attribute alias:__ age
__Attribute definition:__
general age of last suspected movement

*__Attribute type:__ String
*__Attribute width:__ 12

__Attribute domain values:__
__Enumerated domain:__
__Enumerated domain value:__ <1,600,000

__Enumerated domain:__
__Enumerated domain value:__ <750,000

__Enumerated domain:__
__Enumerated domain value:__ <130,000

__Enumerated domain:__
__Enumerated domain value:__ <10,000

__Enumerated domain:__
__Enumerated domain value:__ <150

__Enumerated domain:__
__Enumerated domain value:__ Class B
__Enumerated domain value definition:__
age suspect or older than Quaternary

__Enumerated domain:__
__Enumerated domain value:__ incomplete
__Enumerated domain value definition:__
age not determined

__Enumerated domain:__
__Enumerated domain value:__ Unknown
__Enumerated domain value definition:__
age not able to be determined

__Attribute:__
*__Attribute label:__ acode
*__Attribute alias:__ acode
__Attribute definition:__
age code used for plotting in IMS, see attribute CODE

*__Attribute type:__ Double
*__Attribute width:__

__Attribute:__
*__Attribute label:__ sliprate
*__Attribute alias:__ sliprate

*__Attribute type:__ String
*__Attribute width:__ 7

__Attribute:__
*__Attribute label:__ slipsense
*__Attribute alias:__ slipsense
__Attribute definition:__
direction of slip

*__Attribute type:__ String
*__Attribute width:__ 5

__Attribute domain values:__
__Enumerated domain:__
__Enumerated domain value:__ Unk (Unknown)

__Enumerated domain:__
__Enumerated domain value:__ N (Normal)

__Enumerated domain:__
__Enumerated domain value:__ R (Reverse)

Enumerated domain:
Enumerated domain value: LL (Left lateral)

Enumerated domain:
Enumerated domain value: RL (Right lateral)

Enumerated domain:
Enumerated domain value: T (Thrust)

Enumerated domain:
Enumerated domain value: SS (Strike Slip)

Enumerated domain:
Enumerated domain value: SC (Syncline)

Enumerated domain:
Enumerated domain value: MC (Monocline)

Enumerated domain:
Enumerated domain value: AC (Anticline)

Attribute:
***Attribute label:** dipdirecti
***Attribute alias:** dipdirecti
Attribute definition:
fault dip direction

***Attribute type:** String
***Attribute width:** 15

Attribute:
***Attribute label:** slipcode
***Attribute alias:** slipcode
Attribute definition:
slip code for plotting, see code

***Attribute type:** String
***Attribute width:** 15

Attribute:
***Attribute label:** length
***Attribute alias:** length

***Attribute type:** Double
***Attribute width:**
***Attribute number of decimals:**

Attribute:
***Attribute label:** azimuth
***Attribute alias:** azimuth

***Attribute type:** Long
***Attribute width:**

Attribute:
***Attribute label:** cooperator
***Attribute alias:** cooperator

***Attribute type:** String
***Attribute width:** 200

Attribute:
***Attribute label:** CFM_URL
***Attribute alias:** CFM_URL

***Attribute type:** String
***Attribute width:** 254

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Distribution Information:

Distributor: USGS
Contact information: Greg Smoczyk
Contact organization primary:
Contact organization: USGS, Geologic Hazards Team

Contact voice telephone: 303-273-8625

Contact electronic mail address: gsmoczyk@usgs.gov

Hours of service:
Contact instructions:

Resource description: Downloadable Data

Standard order process:
Digital form:
Digital transfer information:
Transfer size:
***Dataset size:** 21 Mb

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Metadata Reference Information:

***Metadata date:** 20101103

***Language of metadata:** en

Metadata contact:
Contact information:
Contact organization primary:
Contact person: REQUIRED: The person responsible for the metadata information.
Contact organization: REQUIRED: The organization responsible for the metadata information.

Contact address:
Address type: REQUIRED: The mailing and/or physical address for the organization or individual.
City: REQUIRED: The city of the address.
State or province: REQUIRED: The state or province of the address.
Postal code: REQUIRED: The ZIP or other postal code of the address.

Contact voice telephone: REQUIRED: The telephone number by which individuals can speak to the organization or individual.

***Metadata standard name:** FGDC Content Standards for Digital Geospatial Metadata
***Metadata standard version:** FGDC-STD-001-1998
***Metadata time convention:** local time

Metadata extensions:
Online linkage: http://www.esri.com/metadata/esriprof80.html
Profile name: ESRI Metadata Profile

Metadata extensions:
***Online linkage:** http://www.esri.com/metadata/esriprof80.html
***Profile name:** ESRI Metadata Profile

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